

APR 18 2005

**510(K) SUMMARY**

**Subject 510(k) Number - K043339**

*page 1 of 2*

**Sponsor**

**Xtremi-T, LLC**

3131 Princeton Pike  
Bldg 5, Suite 200  
Lawrenceville, New Jersey 08648

**FDA Establishment Registration Number**

3004613836

**Official Contact**

Shawn T. Huxel, President  
Xtremi-T, LLC  
3131 Princeton Pike; Bldg 5, Suite 200  
Lawrenceville, New Jersey 08648  
Phone - (609) 896-0008  
Fax - (908) 842-0310  
Mobile - (908) 896-5893

**Proprietary Name**

ReFIX™ Internal Fixation Pins

**Common Name**

Biodegradable Internal Fixation Device

**Classification Name and Reference**

888.3040 -- Smooth or Threaded Bone Fixation Fastener

**Regulatory Class**

Class II

**Device Product Code**

(Panel 87) HTY

**Date Prepared**

14 March, 2005

Xtremi-T, LLC

**Confidential**

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### **Brief Description of Device**

ReFIX™ Pins are comprised of Internal Fracture Fixation Devices based upon biodegradable polymer fixation systems. Biodegradable polymers are widely used in the orthopaedic specialty. The ReFIX Pins are manufactured from PLLA and PLGA. The pins are available in diameters of 2.0mm, 2.7mm, 3.5mm, and 4.5mm, each supplied in a length of 70mm. The pins are sized and trimmed intraoperatively using the ReFIX instrumentation according to the surgical technique. The sizes and materials are designed to address the indications cited.

### **Indications for Use**

ReFIX Biodegradable Pins are intended for use in the fixation and/or alignment of fragments of fractured non-load bearing bones, osteotomies and arthrodeses; and fixation and/or alignment of apical fragments, osteochondral fragments and cancellous/non-load bearing fragments.

For example, ReFIX pins are intended for use in the following procedures:

- fixation of phalangeal fusion and fracture
- repair of metacarpal fusion and fracture
- fixation of hand and wrist fractures
- fixation of metatarsal osteotomies
- correction of hallux valgus

### **Basis for Substantial Equivalence**

The substantial equivalence of the ReFIX Pins is based on the equivalence in intended use, materials, operational principals, and indications to:

DEVICE	Manufacturer	Trade Name
K010983	Bionx	PLLA Pin
K003659	Bionx	PLGA Pin
K925098	Bionx	Biofix Pin
K031712	Inion	OTPS Pin
K040500	Biomet	Lactonail
K011522	Biomet	Resorbable Bone Pins
K990291	Biomet	Lactosorb Bone Pin
K953194	Biomet	Lactosorb Bone Pin
K890902	D&G	Biofix Pin
K901456	J&J	Orthosorb
K864912	J&J	PDS Pin

**END OF 510(K) SUMMARY**



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

APR 18 2005

Food and Drug Administration  
9200 Corporate Boulevard  
Rockville MD 20850

Mr. Shawn T. Huxel  
President, GM  
Xtremi-T, LLC  
3131 Princeton Pike  
Building 5, Suite 200  
Lawrenceville, New Jersey 08648

Re: K043339

Trade/Device Name: ReFix Internal Fracture Fixation Pins  
Regulation Number: 21 CFR 888.3040  
Regulation Name: Smooth or threaded metallic bone fixation fastener  
Regulatory Class: II  
Product Code: HTY  
Dated: March 14, 2005  
Received: March 15, 2005

Dear Mr. Huxel:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

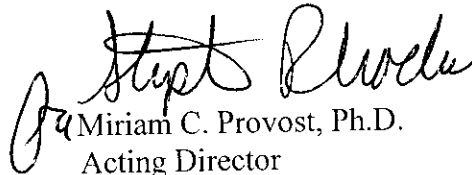
Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Page 2- Mr. Shawn T. Huxel

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0120 . Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Miriam C. Provost", is written over the typed name.

Miriam C. Provost, Ph.D.  
Acting Director  
Division of General, Restorative  
and Neurological Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure

## Statement of Indications for Use

510 (K) NUMBER IF KNOWN: K043339  
MANUFACTURER: Xtremi-T, LLC  
DEVICE NAME: ReFIX Internal Fracture Fixation Pins

### Indications:

ReFIX Biodegradable Pins are intended for use in the fixation and/or alignment of fragments of fractured non-load bearing bones, osteotomies and arthrodeses; and fixation and/or alignment of apical fragments, osteochondral fragments and cancellous/non-load bearing fragments.

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- fixation of hand and wrist fractures
- fixation of metatarsal osteotomies
- correction of hallux valgus

(PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE, IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use yes or Over-the-Counter Use Nb  
(Per 21 CFR 801.109) (Optional Format 1-2-1996)

[Signature]  
(Division Sign-Off)  
Division of General, Restorative,  
and Neurological Devices

510(k) Number K043339